

Eastern Illinois University
New Course Proposal
AET 4913, OSHA Certification for Construction

CGS Agenda Item 16-30
Effective Fall 2016

Banner/Catalog Information (Coversheet)

1. ☒ **New Course** or ☐ **Revision of Existing Course**
2. **Course prefix and number:** *AET 4913*
3. **Short title:** *OSHA for Construction*
4. **Long title:** *OSHA Certification for Construction*
5. **Hours per week:** 3 Class 0 Lab 3 Credit
6. **Terms:** ☒ Fall ☒ Spring ☐ Summer ☐ On demand
7. **Initial term:** ☒ Fall ☐ Spring ☐ Summer Year: **2016**
8. **Catalog course description:** *Department of Labor coursework for OSHA-30 Construction. The OSHA-30 is a certificate provided through the United States Department of Labor signifying 30 hours of safety training. Additional time will be spent on safety and liability management in the construction field.*
9. **Course attributes:**

General education component: _____

☐ Cultural diversity ☐ Honors ☐ Writing centered ☐ Writing intensive ☐ Writing active
10. **Instructional delivery**
Type of Course:

☒ Lecture ☐ Lab ☐ Lecture/lab combined ☐ Independent study/research

☐ Internship ☐ Performance ☐ Practicum/clinical ☐ Other, specify: _____

Mode(s) of Delivery:

☒ Face to Face ☐ Online ☐ Study Abroad

☐ Hybrid, specify approximate amount of on-line and face-to-face instruction
11. Course(s) to be deleted from the catalog once this course is approved. *N/A*
12. **Equivalent course(s):** *None*
 - a. Are students allowed to take equivalent course(s) for credit? ☐ Yes ☐ No
13. **Prerequisite(s):** *None*
 - a. Can prerequisite be taken concurrently? ☐ Yes ☐ No
 - b. Minimum grade required for the prerequisite course(s)? _____
 - c. Use Banner coding to enforce prerequisite course(s)? ☐ Yes ☐ No

d. Who may waive prerequisite(s)?

☐ No one ☐ Chair ☐ Instructor ☐ Advisor ☐ Other (specify)

14. Co-requisite(s): N/A

15. Enrollment restrictions

a. Degrees, colleges, majors, levels, classes which may take the course: *All*

b. Degrees, colleges, majors, levels, classes which may not take the course: N/A

16. Repeat status: ☒ May not be repeated ☐ May be repeated once with credit

17. Enter the limit, if any, on hours which may be applied to a major or minor: N/A

18. Grading methods: ☒ Standard ☐ CR/NC ☐ Audit ☐ ABC/NC

19. Special grading provisions:

☐ Grade for course will not count in a student's grade point average.

☐ Grade for course will not count in hours toward graduation.

☐ Grade for course will be removed from GPA if student already has credit for or is registered in:

☐ Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in: _____

20. Additional costs to students:

Supplemental Materials or Software *None*

Course Fee ☐ No ☒ Yes, Explain if yes Course fee of \$8 to pay for certification admin costs

21. Community college transfer:

☐ A community college course may be judged equivalent.

☒ A community college may not be judged equivalent.

Note: Upper division credit (3000+) will not be granted for a community college course, even if the content is judged to be equivalent.

Rationale, Justifications, and Assurances (Part I)

1. ____ Course is required for the major(s) of ____
____ Course is required for the minor(s) of ____
____ Course is required for the certificate program(s) of ____
☒ Course is used as an elective

2. **Rationale for proposal:** *As federal enforcement and focus on safety increases, certifications for employees, particularly for supervisors and project managers, have become a more desirable quality in applicants. This course will provide students with the opportunity to earn the OSHA-30 Construction certification that will make them more desirable for prospective employment. Additionally, people who complete this course successfully will have knowledge that enables them to protect themselves, their employees, their co-workers, and employers in order to foster a safer workplace.*

3. **Justifications for (answer N/A if not applicable)**

Similarity to other courses: *Some overlap may be perceived with AET 4773: Safety for the Engineering and Technology Professional. However, this course follows the prescribed Department of Labor curriculum for the OSHA-30 certification for Construction. The AET 4773 course focuses more on tools for the management of safety and liability in the workplace. Another proposed course has overlap, AET 4903: OSHA Certification for General Industry. Although the courses share some of the content between them, the end results are two different certifications: OSHA-30 Construction and OSHA-30 General Industry. These certifications are recognized as separate certifications as they cover different parts of the 29th Code of Federal Regulations.*

Prerequisites: N/A

Co-requisites: N/A

Enrollment restrictions: N/A

Writing active, intensive, centered: N/A

4. **General education assurances (answer N/A if not applicable)**

General education component: N/A

Curriculum: N/A

Instruction: N/A

Assessment: N/A

5. **Online/Hybrid delivery justification & assurances (answer N/A if not applicable)**

N/A

Model Syllabus (Part II)

Please include the following information:

1. Course number and title
AET 4913: OSHA Certification for Construction
2. Catalog description

Department of Labor coursework for OSHA-30 Construction. The OSHA-30 is a certificate provided through the United States Department of Labor signifying 30 hours of safety training. Additional time will be spent on safety and liability management in the construction field.

3. Learning objectives.
 - a. Explain the role of OSHA in the workplace, worker's rights, and employer responsibilities. (CT-1, CT-2, CT-3, WR-2, WR-3, SL-1, SL-3, RC-1, RC-2, RC-3, RC-4)
 - b. Navigate the OSHA website. (CT-1, CT-2, CT-3, WR-4, SL-1)
 - c. Perform a jobsite inspection report. (CT-1, CT-2, CT-3, CT-4, CT-5, CT-6, WR-1, WR-2, WR-3, SL-1, SL-2, SL-3, RC-1, RC-2, RC-3, RC-4)
 - d. Utilize Safety Data Sheets (SDS) for determining material management protocols. (CT-1, CT-2, CT-3, CT-4, WR-5, QR-1, QR-2, QR-3, QR-6)
 - e. Analyze hazards in the Focus Four national enforcement plan with respect to specific construction industries. (CT-1, CT-2, CT-3, CT-5, WR-4, WR-5)
 - f. Select and critique personal protective equipment for specific job tasks. (CT-1, CT-2, CT-3, WR-1, WR-2, QR-1, QR-2, QR-5, QR-6)
 - g. Determine health hazards in construction including noise, hazard communication, crystalline silica, and non-ionizing radiation. (CT-1, CT-2, CT-3, WR-1, WR-2, QR-1, QR-2, QR-5, QR-6)
 - h. Create designs for stairways and ladders for construction sites. (CT-1, CT-2, CT-3, WR-1, WR-2, QR-1, QR-2, QR-5, QR-6)
 - i. Critique other [elective] topics included in the OSHA-30 Construction certification (CT-1, CT-2, CT-3, WR-1, WR-2, QR-1, QR-2, QR-5, QR-6)
4. Course materials.
 - Material will be downloaded from OSHA.gov since they are freely available.
5. Weekly outline of content.

Week	Topics ([3] 50-minute blocks)		
Week 1	Intro to OSHA	Intro to OSHA	Intro to OSHA
Week 2	Intro to OSHA	Managing safety and health	Managing safety and health
Week 3	Focus 4 – Falls	Focus 4 – Falls	Focus 4 – Falls
Week 4	Focus 4 - Electrocution	Focus 4 - Electrocution	Focus 4 - Electrocution
Week 5	Focus 4 – Hit-by/Struck-by	Focus 4 – Hit-by/Struck-by	Focus 4 – Hit-by/Struck-by
Week 6	Focus 4 – Caught between	Focus 4 – Caught between	Focus 4 – Caught between
Week 7	PPE and Rescue	PPE and Rescue	Health Hazards
Week 8	Health Hazard	Health Hazards	Exam 1
Week 9	Stairways and Ladders	Stairways and Ladders	Confined Space
Week 10	Concrete & Masonry	Fire protection	Fire protection

Week 11	Materials handling & storage	Mechanized equipment	Signs, signals, and barricades
Week 12	Powered Industrial Vehicles	Scaffolds	Steel Erection
Week 13	Hand and power tools	Welding and cutting	Cranes and derricks
Week 14	Cranes and derricks	Rigging and signaling	Rigging and signaling
Week 15	Rigging and signaling	Excavations	Excavations
Week 16	Final Exam		

6. Assignments and evaluation, including weights for final course grade.

	Undergraduate	Graduate
Assignments	25%	20%
Quizzes	25%	20%
Applied Projects	25%	20%
Exams	25%	20%
Research Paper	-----	20%
TOTAL	100%	100%

7. Grading scale.

A = 90 to 100 %, B = 80 to 89%, C = 70 to 79%, D = 60 to 69%, F < 60%

8. Correlation of learning objectives to assignments and evaluation.

Objective	Assignments Undergraduate: 25% Graduate: 20%	Quizzes Undergraduate: 25% Graduate: 20%	Projects Undergraduate: 25% Graduate: 20%	Exams Undergraduate: 25% Graduate: 20%	Papers Graduate: 20%
A. Explain the role of OSHA in the workplace, worker's rights, and employer responsibilities.	X	X		X	X
B. Navigate the OSHA website.	X	X	X		
C. Perform a jobsite inspection report	X		X		X
D. Utilize Safety Data Sheets (SDS) for determining material management protocols	X	X	X	X	
E. Analyze hazards in the Focus Four national enforcement plan with respect to specific construction industries.	X	X	X	X	X
F. Select and critique personal protective equipment for specific job tasks	X	X	X	X	X
G. Determine health hazards in construction including noise, hazard communication, crystalline silica, and non-ionizing radiation.	X	X	X	X	X

H. Create designs for stairways and ladders for construction sites	X		X		
I. Critique other [elective] topics included in the OSHA-30 Construction certification	X	X	X	X	X

Learning Objective	Graduate learning goals	Undergraduate learning goals
A. Explain the role of OSHA in the workplace, worker's rights, and employer responsibilities.	a. Depth of content knowledge b. Effective critical thinking and problem solving c. Effective oral and written communication	a. Critical thinking b. Writing and critical reading c. Speaking and listening d. Responsible citizenship
B. Navigate the OSHA website.	a. Depth of content knowledge b. Critical thinking and problem solving skills	a. Critical thinking b. Writing and critical reading c. Speaking and listening
C. Perform a jobsite inspection report	a. Critical thinking and problem solving skills b. Effective oral and written communication c. Scholarship through research and creative activity	a. Critical thinking b. Writing and critical reading c. Speaking and listening d. Responsible citizenship
D. Utilize Safety Data Sheets (SDS) for determining material management protocols	a. Depth of content knowledge b. Critical thinking and problem solving skills	a. Critical thinking b. Writing and critical reading c. Quantitative reasoning
E. Analyze hazards in the Focus Four national enforcement plan with respect to specific construction industries.	a. Depth of content knowledge b. Critical thinking and problem solving skills	a. Critical thinking b. Writing and critical reading
F. Select and critique personal protective equipment for specific job tasks	a. Depth of content knowledge b. Critical thinking and problem solving skills	a. Critical thinking b. Writing and critical reading c. Quantitative reasoning
G. Determine health hazards in construction including noise, hazard communication, crystalline silica, and non-ionizing radiation.	a. Depth of content knowledge b. Critical thinking and problem solving skills	a. Critical thinking b. Writing and critical reading c. Quantitative reasoning
H. Create designs for stairways and ladders for construction sites	a. Depth of content knowledge b. Critical thinking and problem solving skills c. Effective oral and written communication d. Scholarship through research and creative activity	a. Critical thinking b. Writing and critical reading c. Quantitative reasoning
I. Critique other [elective] topics included in the OSHA-30 Construction certification	a. Depth of content knowledge b. Critical thinking and problem solving skills c. Effective oral and written communication	a. Critical thinking b. Writing and critical reading c. Quantitative reasoning

Date approved by the department or school: January 14, 2016
Date approved by the college curriculum committee: 2/26/2016
Date approved by the Honors Council (if this is an honors course):
Date approved by CAA: 3/3/2016 CGS: